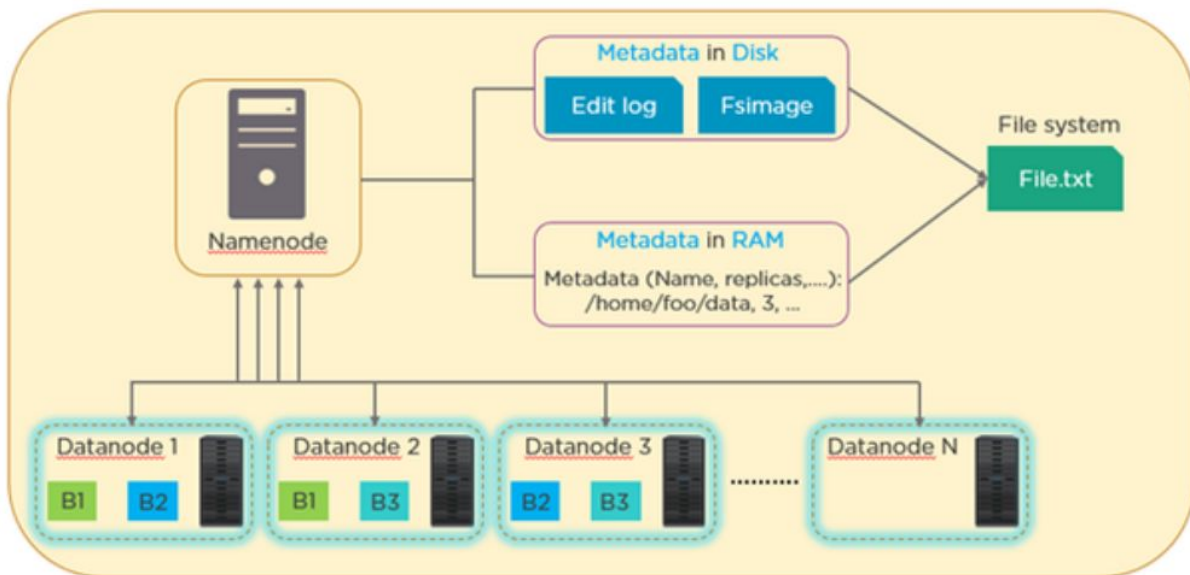


NameNode and DataNode in hadoop are two components of HDFS:

Namenode is the master server. In a non-high availability cluster, there can be only one Namenode. In a high availability cluster, 2 Namenodes are possible.

Namenode holds metadata information about the various Datanodes, their location, the size of each block, etc. It helps to execute file system namespace operations - opening, closing, renaming files and directories.



Datanode is a multiple instance server. There can be N number of datanode servers that store and maintain the actual data. Datanodes send block reports to Namenode every 10 seconds. Datanode stores and retrieves the blocks when asked by the Namenode. It reads and writes the client's request and performs block creation, deletion, and replication on instruction from the Namenode.

